



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 09.03.01 Information Science and Computation
Technology

Educational Programme "Computer Technologies, Systems and
Networks"

Implementing unit: School of Computer Science, Physics and
Technology, HSE - Saint Petersburg
2 nd, 2025/2026 academic year

APPROVED

28.05.2025

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2024/2025 - 2027/2028

Mode of Study: Full Time

Degree: Bachelor's degree

Block Code	Course	Subject type	Department	Period of execution	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
								1	2	3	4	
Degree Programme					60,00	2 442	1 046	248	236	294	272	
Data Culture							2		2		4	
1	Independent Programming Test. Intermediate	C	отдел развития цифровых компетенций				2				2A	Online Course
Major					43,00	1 634	732	178	162	208	184	
Core Professional Block (Major)					32,00	1 216	504	178	162	84	80	
1	Computer Architecture and Operating Systems 1	C	Joint Department with Yandex		5,00	190	70	34	36A			
2	Computer Architecture and Operating Systems 2	C	Joint Department with Yandex		6,00	228	80			40	40A	
3	Object-Oriented Programming	C	Informatics Department		5,00	190	60	32	28A			
4	Automata Theory	C	департамент информатики		5,00	190	60	32	28A			
5	Theory of Probability and Mathematical Statistics	C	департамент информатики		6,00	228	144	32	28A	44	40A	
6	Electronics and Electric Engineering	C	департамент физики		5,00	190	90	48A	42A			
Elective Professional Block (Major)					11,00	418	228			124	104	
Вариативный профессиональный (Major)					5,00	190	108			60	48	
1	Programming Microservice Applications	C	департамент информатики		5,00	190	108			60A	48A	
Elective Courses					6,00	228	120			64	56	
1	Algorithmic Problems of Cryptography	E	департамент информатики		3,00	114	60			32	28A	
2	Antennas and Radio Wave Propagation	E	департамент информатики		3,00	114	60			32	28A	
3	Reliability of Infocommunication Systems	E	департамент информатики		3,00	114	60			32	28A	
4	Fundamentals of the Theory of Intractable Problems	E	департамент информатики		3,00	114	60			32	28A	
Minor					10,00	380	120	28	32	32	28	

1	Minor	E			10,00	380	120	28	32A	32	28A	
	General Courses				1,00	200	184	42	40	52	50	
	Core General Courses				1,00	200	184	42	40	52	50	
1	Physical Training	C	Department of Physical Training		1,00	200	184	42	40A	52	50A	Online Course
	Internship				6,00	228	6				6	
	Research Internship				4,00	152	4				4	
1	Course Project	C		F	2,00	76	2				2A	
2	Educational Internship	C		F	2,00	76	2				2A	
	Project Internship				2,00	76	2				2	
1	Research or Applied Project	C		F	2,00	76	2				2A	
	Language and Communication						2			2		
	Optional Courses											
1	English	O			6,00	228	96	28	28	40A		Foreign language
	Examinations						2			2		
1	Independent Russian Exam	C	School of Foreign Languages				2			2A		

Curriculum agreed:

Academic Supervisor	Ovchinnikov A.A.	27.05.2025
Dean		27.05.2025
Deputy Director	KUZMIN P.V.	27.05.2025
Head of Centre for Educational Model Design	LEPESHKIN I.A.	28.05.2025

* Subject type:

Compulsory course	C
Elective course	E
Optional course	O

Period of execution:

Fixed	F
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